Terminal Flight Data Manager (TFDM)

Program Overview

FAA Terminal Program Industry Day Briefing

Michael Huffman, TFDM Program Manager



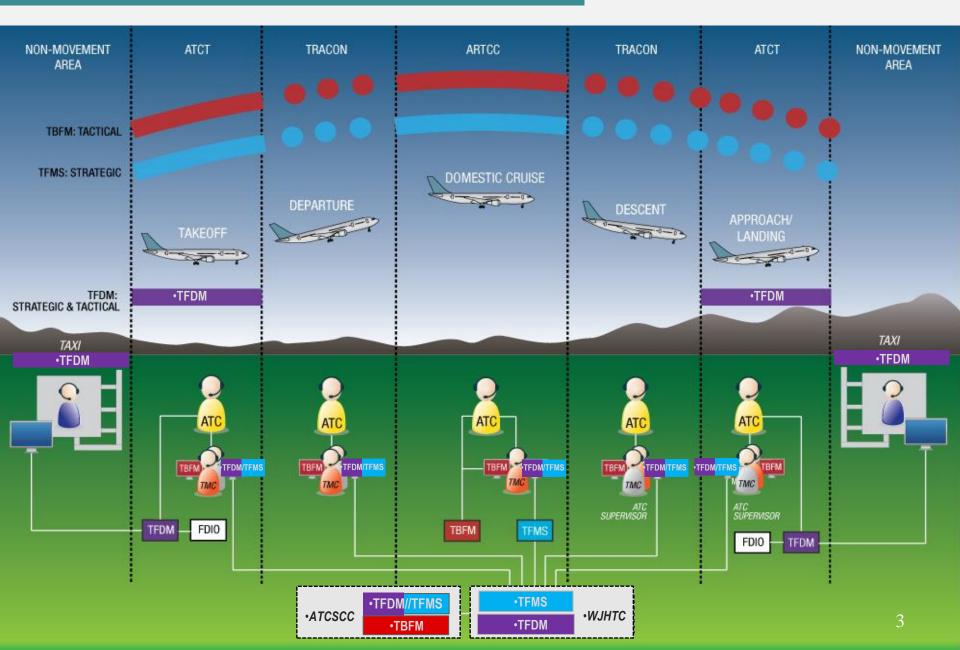
Terminal Flight Data Manager

Michael Huffman, TFDM Program Manager

- TFDM Description
- High-level Benefits
- Milestones
- Implementation Activities
- Artifacts
- Specifications
- Questions



Decision Support Systems



TFDM Description

TFDM will provide efficiencies in the airport surface and terminal airspace by providing new integrated surface traffic control and management capabilities, including:

Surface collaborative decision making (S-CDM), S-CDM including departure scheduler, departure metering, and other airport decision tools Electronic Flight Data and Electronic Flight **EFD** Strips in the Tower Enhanced Air Traffic Control Tower (ATCT) **TFM Traffic Flow Management** Systems Replacement or subsumption of multiple systems in Consolidation the National Airspace System (NAS)

TFDM Benefits



Connected stakeholders.

Exchange data electronically to make more informed tactical decisions



Handle changing traffic volume, weather, and other evolving situations

Collaborative decisions.

Immediate stakeholder access to digital flight plans, shared surveillance data, and collaborative decision-support tools.



Save time and fuel, reduce emissions, improve passenger experience

Real-time accuracy.

Accurate real-time data from surface and terminal



Decrease taxi time, fewer missed connections

TFDM Benefits



Better predictive tools.

Surface surveillance and flowmanagement capabilities predictive modeling



Improve departure management, ground movement, and flight coordination.

Environmentally friendly.

Reduced taxi times, fewer delays and missed connections, and greater predictability



Save fuel and reduce emissions

Taxpayer savings.

Multiple costly legacy systems will be replaced



Create single, easily maintained state-of-the-art platform

TFDM Milestones

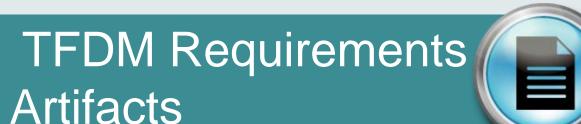
- Achieved Investment Analysis Readiness Decision (IARD) September 2010
- Achieved Initial Investment Decision (IID) March 2014
- Planned Final Investment Decision (FID) 2015

FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
Sep 15, 2010		Aug 15, 2012		March 19, 2014	FY2015
Investment Analysis Readiness Decision	JRC Approval of Revised Scope, Goals and Schedule			Initial Investment Decision	Final Investment Decision

Program Development and Implementation Activities (Notional)

7	

	2016	Requirements Review
ı	2016-2017	System Design
	2017 – 2019	System Development, Integration and Testing
	2019 – 2026	Implementation Activities to Include: Engineering Services, Site Support, and 2 nd Level Support





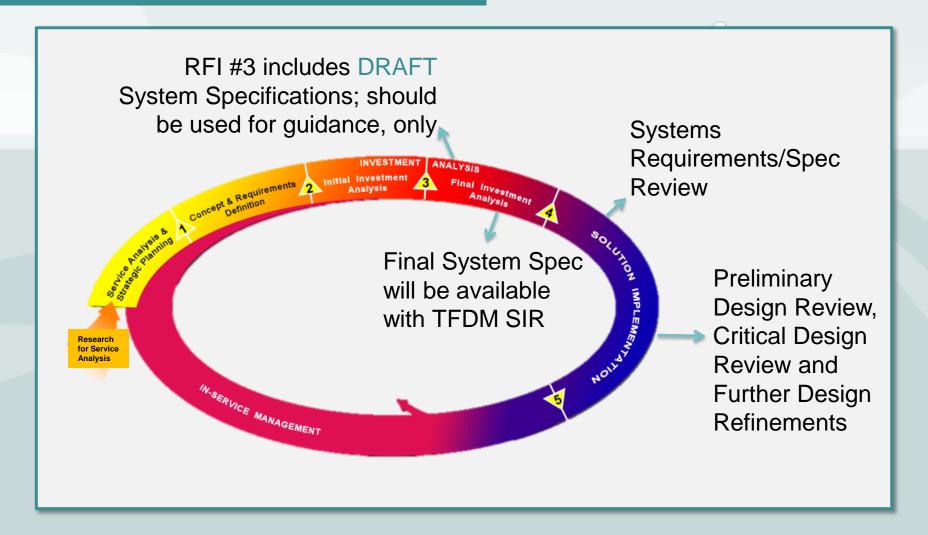
Internal FAA

- > FPRD: Final program requirements document
- > CONOPS: Concept of Operations

FAA Contracts

- > SSD: System level requirements
- IRD: Describes data elements being exchanged
- > CHI Spec: Specification for display

TFDM Specifications



TFDM and the Flying Public

- More predictable air travel
- Reduced taxi time and time spent on tarmac
- Less missed connections

TFDM and the Environment

 Decrease in aviation-related environmental impact through reduced fuel consumption and emissions

Questions

